

# PATENT ABSTRACTS OF JAPAN

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## (54) INK JET RECORDING PAPER

### (57)Abstract:

PURPOSE: To obtain coated paper having high smoothness, forming a dot having a sharp periphery, having a high ink absorbing speed and improved in dimensional stability, by providing a coating layer of which the pigment component contains a specific amount or more of amorphous silica.

CONSTITUTION: In order to record a dot having a sharp periphery, the smoothness of this cast-coated paper is set to 300 sec or more. In order to enhance ink absorbability and to suppress the spreading of the dot, 2 pts. or more per 100pts of a pigment component of amorphous silica is compounded in a cast-coating solution as pigment. In a cast-coating method, because a coating film is dried in a state adhered to a heated mirror surface drum under pressure, not only drying shrinkage is not generated but also drying stress generated in base paper during a papermaking process is relieved in a coating process and, because the coating film is dried as it is while adhered to the mirror surface drum under pressure, the exposure-to-water elongation of the coated paper is reduced by 20\$30% as compared with the base paper. Therefore, in order to satisfy the exposure-to-water elongation of the coated paper of 2% or less in the lateral direction, the exposure-to-water elongation of the base paper may be 2.7% or less and, when single gloss paper prepared by a Yankee machine is especially used as the base paper, dimensional stability effect at the time of recording appears extremely markedly.

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